BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: ***Modified Estimate for Improvements to Roads and Drains at Munibyrappa Layout Chamundeshwari Temple and Surrounding areas in Ward No. 09 (Vidyaranyapura).***

Job Code: 009-20-000080

Estimated Cost Rs:	***40.00 Lakhs***
Modified Cost Rs:	***35.29 Lakhs***

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work: **Modified Estimate for Impovements to Roads and Drains at Munibyrappa Layout Chamundeshwari Temple and Surrounding areas in Ward No. 09 (Vidyaranyapura).**

009-20-000080	**P-3296 14th Finance**					**Est Cost:**		**3529003.00**
Description	Unit	No.	L	B	D	Qty	Rate	Amount
KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
For Drain Desilting								
Munibyrappa Garden 2nd Cross		2	170.00	0.45	0.45	68.85		
Deshabandunagara 5th Main		1	175.00	0.45	0.45	35.44		
Deshabandunagara 8th Main		2	130.00	0.45	0.45	52.65		
Berm Cutting								
Munibyrappa Garden 2nd Cross		2	170.00	0.90	0.25	76.50		
Deshabandunagara 5th Main		1	175.00	0.90	0.25	39.38		
Deshabandunagara 8th Main		2	130.00	0.90	0.25	58.50		
						331.31	243.88	**80800.00**
Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
For Drain								
Munibyrappa Garden 2nd Cross		2	170.00		1.35	459.00		
Deshabandunagara 5th Main		1	175.00		1.35	236.25		
Deshabandunagara 8th Main		2	130.00		1.35	351.00		
						1046.25		
Damage Portion						**-364.10**		
						682.16	111.30	**75924.00**
Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
Damaged Slabs & Missing Slabs 35%			Vide Item No. 2			366.19		
						366.19	742.00	**271711.00**
KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19**	cum							
Drain Flagging Course Bottom Concrete								
Munibyrappa Garden 2nd Cross		2x2	170.00	0.20	0.10	13.60		
Deshabandunagara 5th Main		1x2	175.00	0.20	0.10	7.00		
Deshabandunagara 8th Main		2x2	130.00	0.20	0.10	10.40		
						31.00		
						2.25	5421.90	**12199.00**
						28.75	5360.09	**154103.00**
Basic Rate	5115.00							
Area Weightage @ 6%	306.90							
Total	**5421.90**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amo
	Tender Premium @ -4.646%	-61.81							
		5360.09							
5	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6, edges of stones** chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. **Page No. 255, Item No. 34.9, PWD SR 2018-19**	cum		Not Executed				5811.95	
6	KSRB 15.1.3 Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 115 / Item No. 15.3, PWD SR 2018-19**	Sqm		Not Executed				150.52	
7	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).	Sqm		Not Executed				5418.00	
8	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	Munibyrappa Garden 2nd Cross		2x2	170.00		0.40	272.00		
	Deshabandunagara 5th Main		1x2	175.00		0.40	140.00		
	Deshabandunagara 8th Main		2x2	130.00		0.40	208.00		
							620.00		
							400.00	979.44	3917
	Basic Rate	924.00					**220.00**	968.27	2130
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
	Tender Premium @ -4.646%	-11.17							
		968.27							
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No.34.11 of PWD SR 2018-19**	cum							
	Bed Concrete								
	Munibyrappa Garden 2nd Cross		2	50.00	0.45	0.10	4.50		
	Deshabandunagara 5th Main		1	25.00	0.45	0.10	1.13		
	Deshabandunagara 8th Main		2	30.00	0.45	0.10	2.70		
	Coping Concrete								
	Munibyrappa Garden 2nd Cross		2x2	170.00	0.20	0.10	13.60		

	Amount	Description	Unit	No	L	B	D	Qty	Rate	Amount
		Deshabandunagara 5th Main		1x2	175.00	0.20	0.10	14.00		
		Deshabandunagara 8th Main		2x2	130.00	0.20	0.10	10.40		
								46.33	5599.98	**259419.00**
)	5811.95	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.2 PWD SR 2018-19**	Sqm							
					Not Executed				966.72	
1	150.52	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 26 / Item No. 5.22, PWD SR 2018-19**	m							
					Not Executed				61.48	
2	5418.00	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
		Munibyrappa Garden 2nd Cross		1	170.00	5.00		850.00		
		Deshabandunagara 5th Main		1	175.00	5.00		875.00		
		Deshabandunagara 8th Main		1	130.00	4.80		624.00		
		Total Qty						**2349.00**		
		Consider 35% of the Total Qty						**822.15**		
								822.15	95.40	**78433.00**
3	979.44 391776 968.27 213020	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
		Munibyrappa Garden 2nd Cross		1	170.00	5.00	0.25	212.50		
		Deshabandunagara 5th Main		1	175.00	5.00	0.25	218.75		
		Deshabandunagara 8th Main		1	130.00	4.80	0.25	156.00		
		Total Qty						**587.25**		
		Consider 35% of the Total Qty						**205.54**		
								205.54	2001.28	**411338.00**
4		KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
		Munibyrappa Garden 2nd Cross		1	170.00	5.00		850.00		
		Deshabandunagara 5th Main		1	175.00	5.00		875.00		
		Deshabandunagara 8th Main		1	130.00	4.80		624.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amou
							2349.00		
	Total Qty						**822.15**		
	Consider 35% of the Total Qty						**822.15**	36.04	296
15	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum							
	Munibyrappa Garden 2nd Cross		1	170.00	5.00	0.05	42.50		
	Deshabandunagara 5th Main		1	175.00	5.00	0.05	43.75		
	Deshabandunagara 8th Main		1	130.00	4.80	0.05	31.20		
	Total Qty						**117.45**		
	Consider 35% of the Total Qty						**41.11**	5551.22	**2281**
16	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	Munibyrappa Garden 2nd Cross		1	170.00	5.00		850.00		
	Deshabandunagara 5th Main		1	175.00	5.00		875.00		
	Deshabandunagara 8th Main		1	130.00	4.80		624.00		
	Total Qty						**2349.00**	5.30	**1245**
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
			Qty Vide Item No. 16				2349.00		
							2349.00	14.84	**3485**
18	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum							

Description	Unit	No.	L	B	D	Qty	Rate	Amount
Munibyrappa Garden 2nd Cross		1	170.00	5.00	0.040	34.00		
Deshabandunagara 5th Main		1	175.00	5.00	0.040	35.00		
Deshabandunagara 8th Main		1	130.00	4.80	0.040	24.96		
						93.96	7512.50	**705875.00**
KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **Page No. 182, Item No. 24.15 PWD SR 2018-19**	Sqm							
Munibyrappa Garden 2nd Cross		2	170.00	0.10		34.00		
Deshabandunagara 5th Main		2	175.00	0.10		35.00		
Deshabandunagara 8th Main		2	130.00	0.10		26.00		
						95.00	454.74	**43200.00**
EIRL								
Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved). **As per PWD SR 2018-19**	Sqm							
Munibyrappa Layout 2nd Cross		1	15.00	0.90		13.50		
Deshabandunagara 5th Main		1	111.00	0.90		99.90		
Deshabandunagara 8th Main		1	46.00	0.90		41.40		
		1	81.00	0.90		72.90		
						227.70	2310.36	**526069.00**
Revised Basic Rate	2337.00							
Tender Premium @ 1.14%	-26.64							
Total	**2310.36**							
Total								**3529003.00**

Technical Sanction Accorded For Rs. 3529003 Head of A/C 23296 CER NO : 23 Dt: 01/02/2021

TA JE (T&K)

Rupees Thirty Five Lakh(s) Twenty Nine Thousand Three Only

ERTIFICATE:

The work spot has been inspected and the work is found necessary.

This estimate is prepared as per PWD SR of 2018-19.

The provisions were made in this estimate are necessary and adequate.

This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Name of work: Improvements to Roads and Drains at Munibyrappa Layout Chamundeshwari Temple and Surrounding areas in Ward No. 09 (Vidyaranyapura).

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Name of work: Improvements to Roads and Drains at Munibyrappa Layout Chamundeshwari Temple and Surrounding areas in Ward No. 09 (Vidyaranyapura).

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division